## IN THE CLAIMS:

- 1-4 (Cancelled).
- 5. (Currently Amended) An apparatus for fabricating a holey optical fiber, comprising:
  - a preform cover sealing one end of a holey optical fiber preform;
  - a gas supplier for supplying gas into the preform cover;
  - a pressure regulator for controlling a gas pressure supplied by the gas supplier; and,
- a heating means installed at the other end of the holey optical fiber preform for heating the other end of the preform to draw an optical fiber.
- 6. (Original) The apparatus of claim 5, further comprising a fixing rod attached to the top of the preform cover to hold the holey optical fiber preform in a stationary position.
  - 7. (Original) The apparatus of claim 5, wherein the gas is nitrogen.
  - 8. (Original) An apparatus for fabricating a holey optical fiber, comprising: a tubular preform;
- a sealing means operative to cover the top portion of the tubular preform for receiving a flow of gas at a predetermined pressure;
  - a storage means to store the gas;
  - a regulating means for controlling the amount of gas supplied from the storage means to the

sealing means to be constant; and,

a heating means coupled at the other end of the tubular preform for heating the tubular preform while drawing an optical fiber from the tubular preform.

- 9. (Original) The apparatus of claim 8, wherein the tubular preform is formed by the following steps:
  - (a) forming a sol by mixing a starting material, deionized water, and an additive;
  - (b) pouring the sol into a circular frame to form a gel;
  - (c) inserting a preform rod at the center of the gel;
- (d) vertically arranging a plurality of glass tubes around the preform rod located in the center of the gel;
  - (e) removing the gel from the circular frame to dry the gel; and,
  - (f) sintering the dried gel under a heat application to obtain the tubular preform.
  - 10. (Original) The apparatus of claim 8, wherein the gas is nitrogen.